MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE

DOMINION OF CANADA

OCTOBER 1933

TEMPERATURE

Over by far the greater part of the Dominion this October was colder than a normal October. The deficiency was five to six degrees in the western Yukon and northwestern British Columbia, five to eight degrees in Manitoba and three to six degrees over Saskatchewan and Alberta (except in far northeastern Alberta and the most northerly portions of Saskatchewan and Manitoba). In the Mackenzie valley the deficiency was two to four degrees and on the western shores of Hudson and James Bays two to eight degrees.

Between Lake Superior and the Lake of the Woods there was a deficiency of four to six degrees but in the remainder of Ontario south of the Albany River the deficiencies were small while in part of the Lower Lakes region there were areas with temperatures slightly above normal.

In Quebec temperatures were slightly below normal in the St. Lawrence valley between Montreal and Quebec and a little above normal below Quebec to the Gulf. North of the River temperatures were mostly below normal especially in the upper Ottawa valley and at the head of the Gatineau where the deficiency was two to three degrees. In the Saguenay region and generally along the North Shore into Labrador and towards the Hudson Straits there was an excess of one to three degrees.

In the Atlantic provinces temperatures averaged slightly above normal over the greater part of New Brunswick, in Prince Edward Island, and in Nova Scotia, except in the extreme southwest where there was a slight deficiency.

The largest excesses above normal temperature were:— In Prince Edward Island and Cape Breton Island where the normal temperature was exceeded by three to four degrees; on southern Vancouver Island, and at the mouth of the Fraser in southern British Columbia, where the excess was two degrees; in Hudson Straits and southern Baffinland where the excess appeared to be four degrees. On account of the closing of the radio telegraph stations at Cape Hopes Advance and Resolution Island the figures for this last district will remain doubtful until reports are received by mail next summer.

PRECIPITATION

In British Columbia the last half of the month was very wet on the coast and there was considerable snow or rain in the interior valleys. At the mouth of the Fraser, on Vancouver Island, and the north coast, excesses ranged from thirty to one hundred per cent. of the normal October precipitation. The excess in the interior valleys varied from fifty to two hundred per cent., the largest excesses occurring in the north Thompson, east Kootenay and Illicillewait regions.

In Alberta where the normal October precipitation is generally three-quarters of an inch the average actually recorded was about one and one-quarter inches, a general excess of approximately fifty per cent. In the Peace River district and some parts of the extreme southwest the actual amount, however, was between two and three inches or approximately three times the normal October precipitation.

In Saskatchewan, where the normal October precipitation is between one-half and one inch, the deficiencies were largely confined to a long strip running from the extreme southeast to the boundary between Alberta and Saskatchewan west of Battleford. This strip averaged about 120 miles in width. Over the greater part of the grain regions in this province the precipitation was generally in excess of an inch.

In the province of Manitoba the October precipitation is normally in excess of one inch in the western portion, and in excess of one and a half inches in the eastern portion. During this October much of western Manitoba recorded from one to three inches while the southeastern region reported only one-half to three-quarters of an inch.

In the Lake of the Woods region of Ontario there was a deficiency of fifty per cent. while from Rainy Lake eastward to Lake Superior there was an excess varying from twenty-five to one hundred and twenty-five per cent. On the east shore of Lake Superior excesses ranged from forty to three hundred per cent. In the Temiskaming and Nipissing districts some areas reported moderate excess and others moderate deficiency.

In the Georgian Bay region there were excesses of from twenty per cent. to fifty per cent. at shore stations, while precipitation was practically normal further inland. From Niagara to Toronto there was an excess of about ten per cent. at the western end of Lake Ontario, but elsewhere in the region of the Lower Lakes, upper St. Lawrence and lower Ottawa valleys, there were deficiencies of ten to seventy-five per cent.

In Quebec precipitation was almost everywhere below normal. In the regions of the upper St. Maurice and the Saguenay-Lake St. John valleys the deficiency ranged from fifteen to fifty per cent. In the middle St. Lawrence valley and the region to the south, the deviation from normal varied from plus five to minus thirty-five per cent. Below Quebec as far as the Gulf, deficiencies were generally from twenty-five to sixty per cent. although on the island of Anticosti the deficiency was apparently small.

In the Atlantic provinces the month was quite wet. The total amount ranged from three to ten inches in New Brunswick, from seven to fourteen inches in Nova Scotia, and from four to eight inches in Prince Edward Island. The excess over normal in the interior of New Brunswick was fifteen to fifty per cent. while on the eastern coast from Chaleur Bay to Northumberland Strait as well as on the north shore of the Bay of Fundy the excess ranged from one hundred to one hundred and eighty per cent. The excess in Nova Scotia ranged from one hundred and twenty to one hundred and ninety per cent. and in Prince Edward Island from ten to sixty-five per cent. On October 8th strong northwest gales caused immense damage to the orchards of the Annapolis valley, besides much loss to shipping. Heavy rains later in the month injured crops as well as highways and bridges.

A. J. CONNOR

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month; Column Tm is the mean temperature of the current month; Column Sg denotes depth of snow on ground in inches, where given.

BRITISH COLUMBIA

STATION	H	L	P	I	Tm	STATION	H	L	P	I	Tm	STATION	H	L	P	I	Tm
Atlin			1.8		30°	Nanaimo	70°	36°	6.0	154		Salmon Arm	73°	26°	4.0	105	
Estevan Point			17.4		49°	Courtenay			5.9			Greenwood	61°	16°	1.2		
Goldstream Lake			8.6			Vancouver	70°	35°	7.9	112	51°	Kaslo	64°	27°	4.3		44°
Sooke	72°	34°	8.0			New Westminster	74°	36°	8 2			Nelson	68°	26°	4.2	102	
Port Alberni	75°	31°	7.2			White Rock	72°	35°	6.0			Cranbrook	70°	22°	1.3		
Victoria	72°	47°	5.0	160	52°	Oliver	80°	24°	1.1	117		Windermere	67°	17°	1.4	123	
Shawnigan Lake	78°	32°	5.8			Penticton	72°	27°	2.0			Glacier	60°	20°	6.1		
Duncan	79°	29°	6.0			Vernon	68°	27°	4.5	126		Field	70°	15°	2.6		
Cowichan Bay	67°	34°	4.7	142		Kamloops	73°	28°	2.4	129	46°	Prince George	78°	9°	3.0	94	38°

ALBERTA

STATION	H	L	P	I	Tm	Sg	STATION	H	L	P	I	Tm	Sg
Beaverlodge	76°	-1°	2.4	117	33°	8	Coleman			3.7			
Fairview	76°	3°	2.4	89	32°		Cowley			4.0			
Peace River	82°	-1°	2.4		33°		Seven Persons			1.9			
Entrance	80°	2°	1.1				Nemiscam			0.8			
Grouard	72°	5°	2.3		35°		Winnifred			1.6			
High Prairie	81°	7°	2.5				Alix	89°	0°	0.8		36°	
Slave Lake	71°	7°	3.1		36°		Hanna	75°	4°	1.0			
Anthracite	72°	4°	0.4				Hillsdown	79°	8°	1.0		36°	
Exshaw	75°	4°	1.8				Jenner	82°	0°	1.5			
Coalspur	79°	-10°	1.9				Lacombe	82°	5°	1.4		35°	
Lake Louise	67°	0°	2.8				Olds	82°	6°	1.0		35°	
Brooks	78°	3°	2.6				Perbeck	83°	5°			36°	
Calgary	85°	5°	1.3	137	37°		Springdale	79°	-4°	1.5			
Cardston	82°	-2°	2.6				Stettler	80°	6°	1.4		35°	
Claresholm			1.7				Campsie	79°	-8°	2.6		34°	
High River	86°	3°	2.2				Coronation	72°	-10°	1.4			
Lethbridge	86°	6°	2.4	145	40°	10	Edmonton	78°	9°	1.8	155	36°	9
Lyndon			1.7				Ranfurly	78°	9°	1.2			
Macleod	80°	6°	2.5				Rocky Mountain House	73°	0°	1.2			
Maycroft			5.0				Sedgewick	81°	3°	1.1			
Medicine Hat	84°	9°	1.8	144	41°	3	Telfordville			1.2			
Pekisko	79°	-3°	2 9		36°		Viking	74°	2°	1.6			
Pincher Creek	78°	0°	2.6				Wabamun			1.7			
Strathmore			1.6		37°		Wetaskiwin	81°	2°	0.9		36°	
Beaver Mines			3.9										

SASKATCHEWAN

Battleford	81°	6°	1.3		36°	5	Swift Current	80°	4°	0 9	160	39°	
Biggar	76°	8°	0.1		37°		Pennant	79°	2°	0.7		38°	
Harris	77°	8°	1.2		37°		Gravelbourg	81°	3°	0.8		37°	
Macklin	82°	6°	0 3		36°		Nashlyn	80°	9°	1.2		37°	
Rosetown	76°	2°	1 3		35°		Assiniboia	76°	7°	0.9		38°	
Meadow Lake	78°	9°	1.1		36°		Maskakee Springs	73°	4°	1.1		35°	
Prince Albert	73°	7°	1.0		31°	7	Regina	78°	0°	0.8		35°	
Waseca	74°	10°	0.7		35°		Moose Jaw	82°	3°	1.2	155	38°	
Prince	81°	4°	1.4		34°		Qu'Appelle	77°	7°	0.8		35°	
Scott	75°	7°	1.5	150	35°		Moosomin	70°	9°	0.0		36°	
Loon Lake	76°	4°	1.3		33°		Indian Head	79°	8°	1 2		35°	
St. Walburg	78°	4°	1.0		34°		Yellow Grass	80°	3°	0.6		36°	
Lloydminster	76°	10°	0 5		34°		Grenfell	78°	3°	1 2		35°	
Humboldt	73°	6°	0.2		35°		Francis	80°	4°	0.4		37°	
Yorkton	73°	-5°	1.1		34°		Whitewood	68°	5°	1.1		32°	
Kamsack	66°	-10°	0.6		31°		Carlyle	76°	-4°	1.4		34°	
Muenster	70°	0°	0.5		32°		Midale	80°	2°	0.9		36°	
Nipawin	73°	1°	1.0		35°		Lumsden	80°	15°	1.0		38°	
Saskatoon	74°	9°	1.3		35°		Nokomis	70°	0°	1.0		34°	
Leader	84°	6°	1.2		37°		Ft. Qu'Appelle	80°	8°	0.7		36°	
Climax			2 2				Hubbard	71°	3°	1.6		33°	
Outlook	76°	1°	0.9		37°		Marquis			1.0			
Caron	81°	7°	1.4		37°		Rockglen			1.7			
Shaunavon	78°	12°	0.4		39°		Strongfield			1.0			
Chaplin	73°	13°	0.4		36°		Goodwater			0.3			
Dundurn	75°	6°	1.5		36°		Ceylon			0.9			
Beechy	77°	2°	1.1		38°		Lintlaw	72°	-6°	1.0		33°	
High Point			0.7				Lost River	71°	3°	0.6		34°	
Leitchville			1.1										

MANITOBA

STATION	H	L	P	I	Tm	Sg.	STATION	H	L	P	I	Tm	Sg.
Cypress River	68°	8°	0.7		36°		Morden (Experimental Farm)	75°	12°	0.7		38°	0
Brandon	71°	-2°	1.4	150		4	Morris	65°	15°	0.2			0
Russell	66°	2°	1.3		32°		Graysville	71°	12°	0.6			T
Minnedosa	70°	5°	2.1		34°	12	Sprague	71°	7°	0.5		34°	
Rapid City	68°	0°	2.1		33°		Winnipeg	73°	14°	0.7	124	36°	T
Virden	76°	6°	0.3		36°		Great Falls	67°	8°			36°	
Treesbank (St. Albans)	72°	4°	1.1			4	Dauphin	74°	9°	1.5		40°	T
Treherne	69°	6°	1.2			4	Aitkensville	62°	10°	2.1		34°	
Waskada	74°	7°	0.5		36°		Le Pas	67°	3°	2.8		33°	
Morden	73°	12°	0.4		38°								

ONTARIO

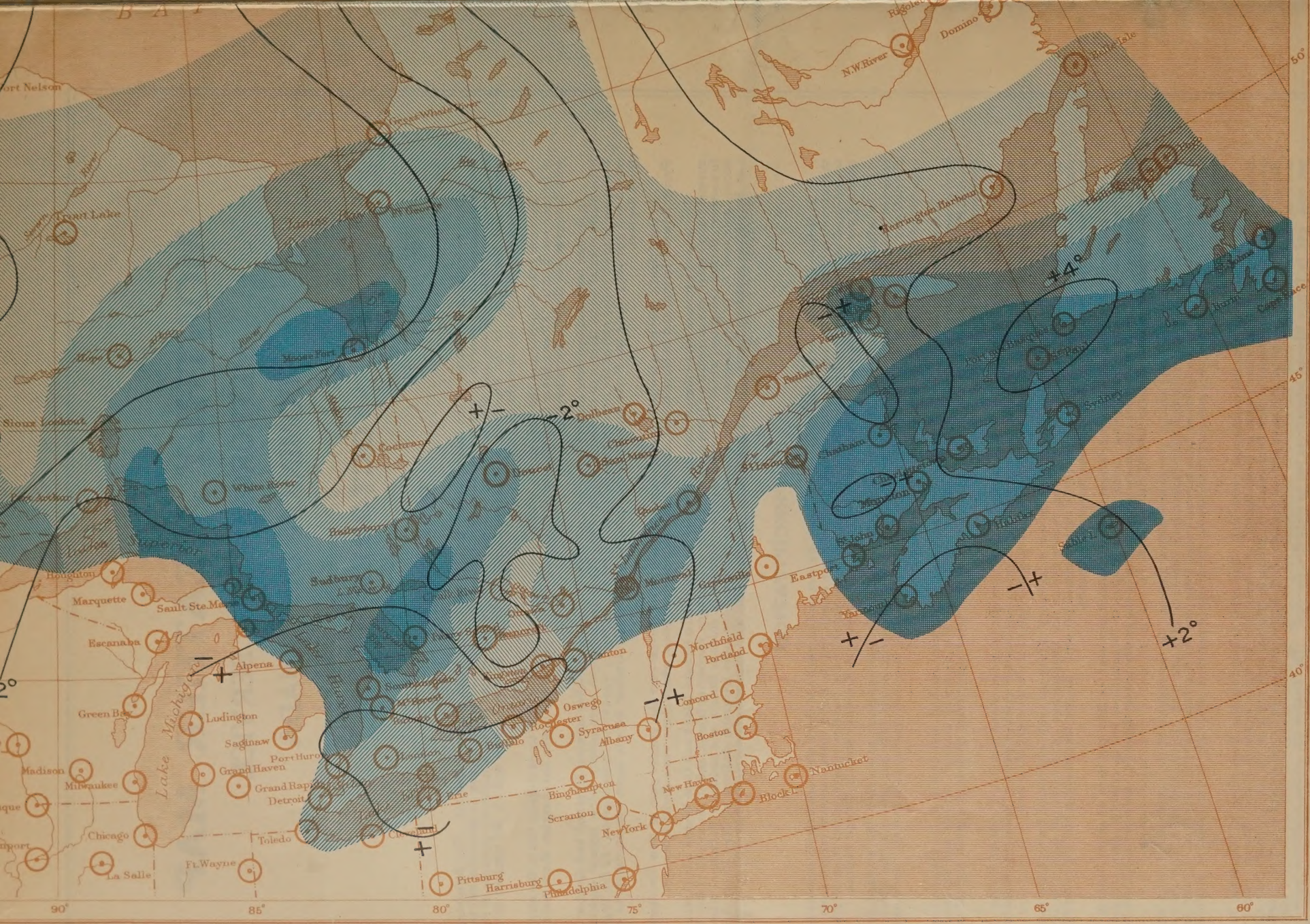
Kenora	67°	10°	1.4			0	Walkerton	79°	19°	4.1		45°	
Mine Centre	72°	-4°	2.3		35°		Mount Forest	68°	9°	3.2	131	44°	
Sioux Lookout			1.7		34°	3	Barrie	70°	19°	1.5	130	45°	
Indian Bay (Shoal Lake)	75°	10°	0.6		37°		Beeton	73°	14°	2.0		47°	0
							Alton	73°	8°	3.0		44°	
Quorn	68°	-9°	1.9		33°	1	London	69°	21°	2.4		47°	
Atikokan	72°	-8°	3.5		37°		Paris	74°	18°	2.5		48°	0
Armstrong	62°	-21°	3.7				Woodstock	70°	19°	3.3	175	46°	
Ignace	65°	-14°	3.4		33°		Brucefield	73°	24°	2.6		47°	0
Port Arthur	57°	8°	2.4		40°	0	Pelee Island	74°	27°	1.1		52°	
Schreiber	56°	8°	5.9		37°		Simcoe	77°	19°	2.5		49°	0
Moosonee			4.4		35°		Harrow	74°	24°	0.5	187	51°	
Sault Ste. Marie	66°	8°	4.8		43°		St. Catharines	70°	23°	2.0	149	47°	
Timmins	68°	15°	1.8		37°		Toronto	69°	22°	2.3	153	48°	0
Kapuskasing	65°	8°	2.5		36°		Belleville	69°	14°	1.9		47°	
Cochrane			1.6		36°		Bloomfield	72°	19°	2.5			
Haileybury	72°	13°	3.8	72	41°	0	Peterboro'	67°	6°	1.4			0
Chapleau	65°	2°	3.6		38°		Queensboro'	66°	5°	1.4		41°	0
Ruel	71°	7°	3.0		40°		Kingston	66°	19°	1.8	156	48°	0
White River	59°	-6°	3.7		35°		Brockville	74°	15°	2.9	127	47°	0
Montreal River	73°	8°	4.8		40°		Morrisburg	73°	8°	0.8			0
Rutherglen	71°	7°	3.2		41°		Ottawa	71°	14°	2.1	144	46°	
Providence Bay	71°	12°	3.5		44°		Ottawa (Exp. Farm)	68°	9°	1.9	120	44°	T
Parry Sound	68°	19°	5.9		46°	0	Renfrew	66°	12°	1.6		42°	0
Southampton	68°	20°	3.7		48°		Pembroke	71°	15°	1.2		45°	0
Lucknow	68°	20°	3.7			0	Clontarf	71°	7°	1.5		43°	0
Beatrice	69°	9°	3.8		43°		Bancroft	72°	2°	2.4		40°	

QUEBEC

Cedars	69°	19°	2.2		46°	0	St. Joachim	70°	22°	3.0	129	44°	0
Macdonald College	69°	18°	2.4		46°	0	Donnacona	73°	22°	4.5		46°	0
Montréal	68°	19°	2.8	132	46°	T	Québec	65°	22°	3.2	116	45°	T
Farnham	72°	17°	2.3	137	46°	0	Cap Rouge	72°	19°	3.4	108	44°	
Brome	77°	15°	3.2		45°	0	Gaspé	60°	31°	1.2		44°	
Lennoxville	78°	15°	3.7	127	44°	T	Ste. Anne de la Pocatiére	69°	22°	2.1	93	43°	
Sherbrooke	72°	18°	3.1	128	45°	0	La Malbaie	66°	20°	1.6		42°	
Beauceville	70°	19°	3.7		49°		Albanel	66°	13°	1.3	80		
Sorel	72°	16°	1.8		42°		La Ferme	65°	8°	2.8	71	38°	3
Drummondville	74°	9°	2.1		45°		Dolbeau			1.3		40°	
Nicolet	68°	21°	3.0		45°	0	Lake Kempt	64°	4°	2.0		34°	
St. Lin de Laurentides	73°	14°	2.4		43°	3	La Loutre Rapids	67°	15°	2.7		38°	
St. Gabriel de Brandon	62°	19°	2.3				Doucet			3.1	56	35°	
Joliette	70°	18°	2.8		44°		Ville Marie	74°	14°	3.6		44°	
Huberdeau	69°	13°	2.3			T	Sanmaur	71°	6°	2.0	39	37°	T
Maniwaki	64°	15°	2.0	128	43°		Fame Point	68°	26°	6.5		42°	T
Mont Laurier	63°	16°	1.3		43°	0	St. Paul Island			7.4		48°	

ATLANTIC PROVINCES

Saint John	66°	27°	7.9	134	48°		Sussex	73°	23°	7.9		48°	
Aroostook	71°	22°	4.7		44°		Woodstock	74°	17°	5.0		45°	
Bathurst	69°	22°	6.5		43°		Digby	70°	26°	9.6		50°	
Chatham	72°	20°	8.9		46°		Halifax	68°	25°	13.5		50°	
Chipman	69°	20°	7.9		45°		Kentville (Experimental Farm)	72°	23°	11.7	129	49°	
Edmundston	67°	22°	3.4		44°								
Fredericton	73°	22°	5.8	149	45°		Liverpool	72°	22°	14.0		49°	
Fredericton (Experimental Farm)	73°	22°	5.8	154	45°		Nappan (Experimental Farm)	69°	23°	10.7	124	48°	
Gagetown	67°	23°	6.8		47°		Sydney	71°	29°	11.2		51°	
Grand Falls	68°	20°	4.4		43°		Upper Stewiacke	71°	23°	7.7		49°	
Harvey	72°	20°	5.7		45°		Wolfville	71°	26°	9.8	142	49°	
Moncton	71°	21°	10.2		46°		Yarmouth	68°	29°	7.6		48°	
Musquash	67°	19°	7.1		45°		Charlottetown	66°	29°	4.6		50°	
McAdam Junction	74°	20°	5.5		45°		Charlottetown (Experimental Farm)	68°	27°	7.8	127	50°	
Richibucto	70°	23°	8.9		46°								

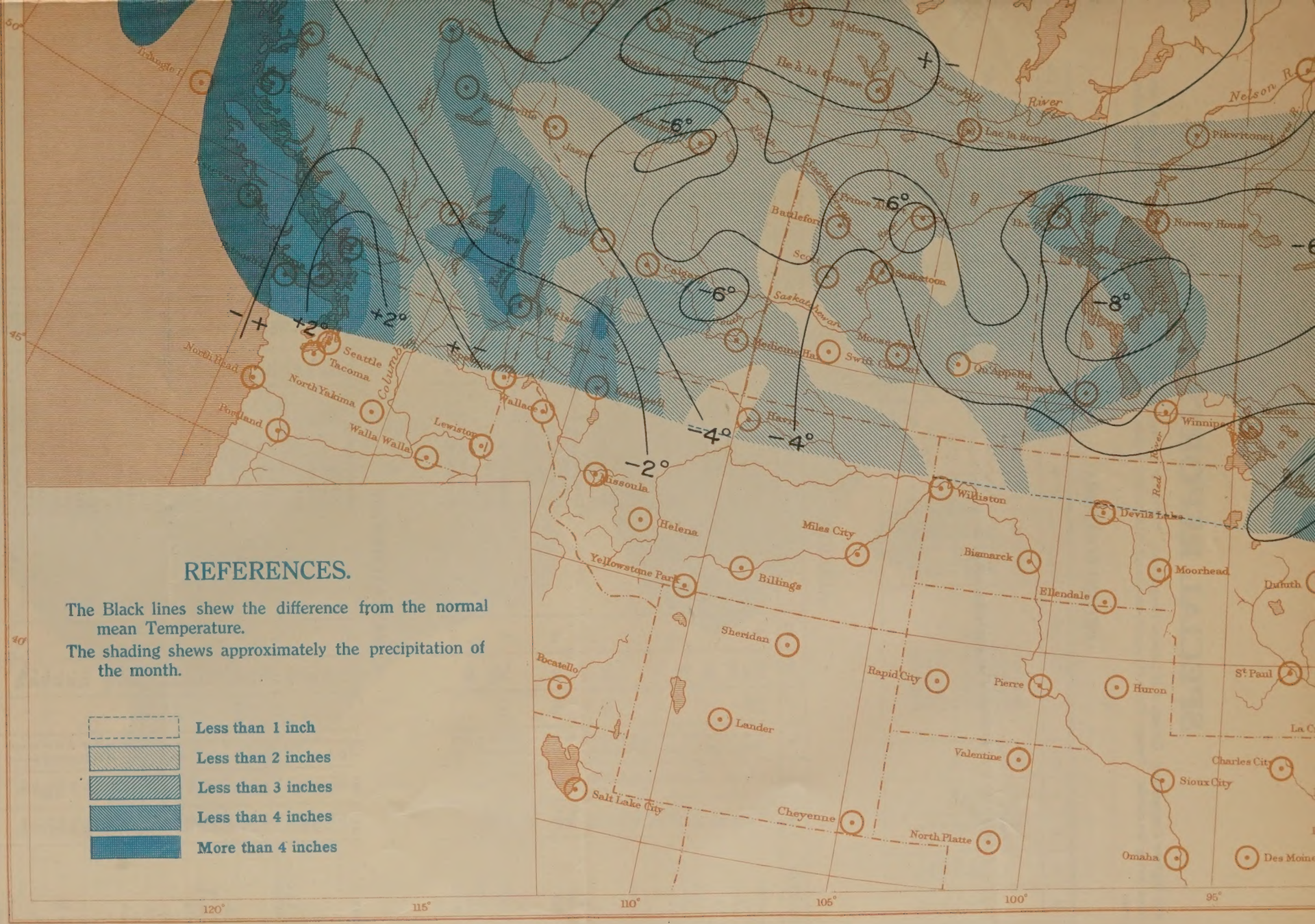

Port Nelson
Trout Lake
Marquette
Sault Ste. Marie
Escanaba
Alpena
Green Bay
Ludington
Saginaw
Port Huron
Madison
Milwaukee
Grand Haven
Grand Rapids
Detroit
Chicago
Toledo
Cleveland
La Salle
Ft. Wayne
Lake Michigan
Pittsburg
Harrisburg
Philadelphia
Scranton
Binghampton
New York
New Haven
Block I.
Nantucket
Boston
Albany
Syracuse
Oswego
Rochester
Concord
Portland
Northfield
Eastport
Domino
N.W. River
+4°
+2°
-2°
90°
85°
80°
75°
70°
65°
60°
50°
45°
40°

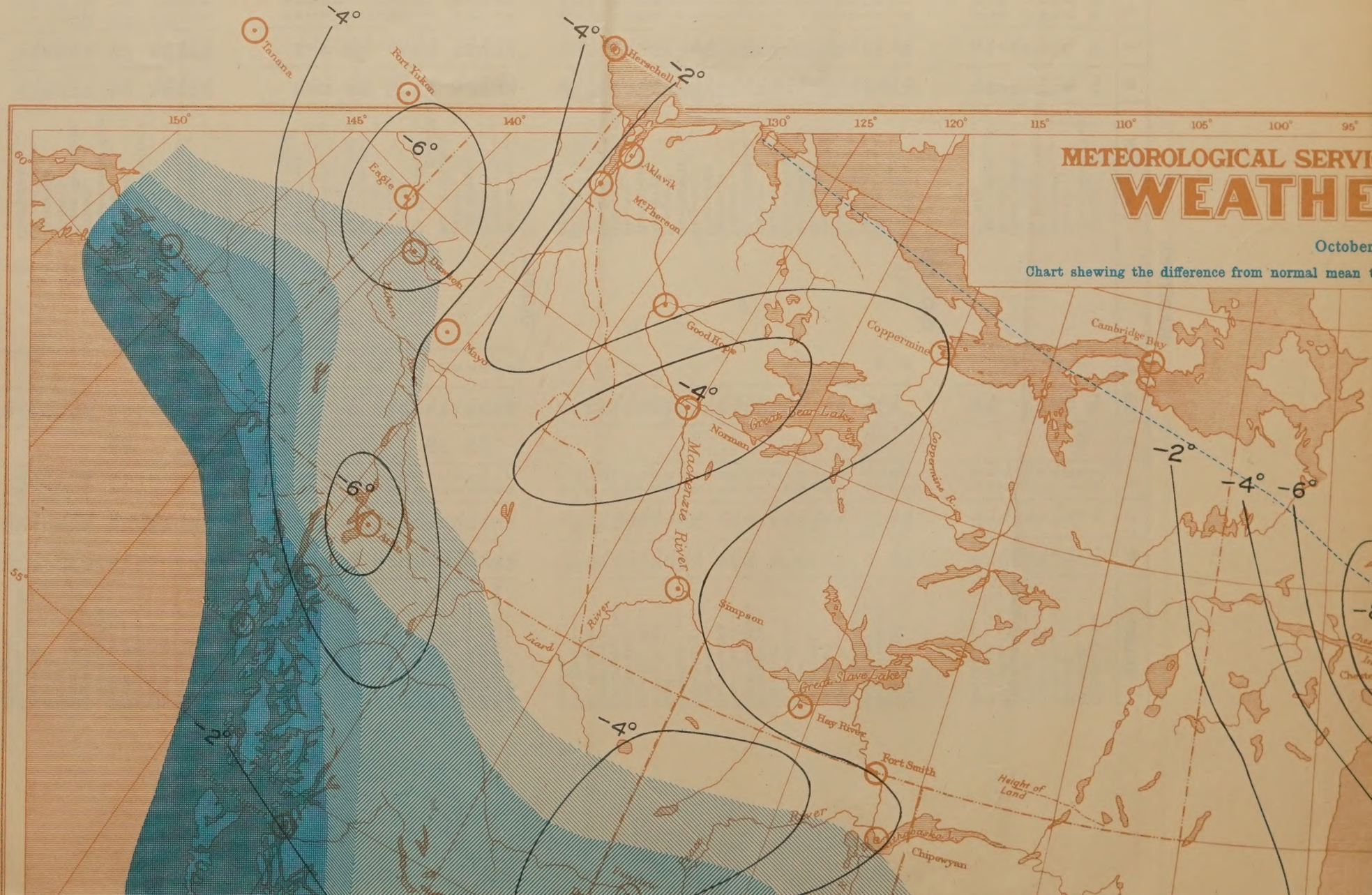
CE, DOMINION OF CANADA.

R MAP

1933

mperature; and total precipitation of the month.


REFERENCES.
The Black lines shew the difference from the normal mean Temperature.
The shading shews approximately the precipitation of the month.
Less than 1 inch
Less than 2 inches
Less than 3 inches
Less than 4 inches
More than 4 inches
+2°
−2°
−4°
−6°
−8°
Seattle
Tacoma
North Yakima
Portland
Walla Walla
Lewiston
Missoula
Helena
Billings
Miles City
Williston
Devils Lake
Bismarck
Moorhead
Duluth
Yellowstone Park
Sheridan
Pocatello
Lander
Salt Lake City
Rapid City
Pierre
Huron
St. Paul
Valentine
Sioux City
Cheyenne
North Platte
Omaha
Des Moines
Charles City
Saskatoon
Prince Albert
Battleford
Norway House
Winnipeg
Red River
Nelson R.
120°
115°
110°
105°
100°
95°
45°
40°


METEOROLOGICAL SERVI
WEATHE
October
Chart shewing the difference from normal mean
-4°
-4°
-2°
-6°
-4°
-6°
-2°
-4°
-6°
-2°
-4°
-4°
Tanana
Fort Yukon
Herschell I.
Aklavik
McPherson
Eagle
Dawson
Mayo
Good Hope
Coppermine
Cambridge Bay
Great Bear Lake
Norman
Mackenzie River
Coppermine R.
Simpson
Liard River
Great Slave Lake
Hay River
Fort Smith
Height of Land
Chipewyan
150°
145°
140°
130°
125°
120°
115°
110°
105°
100°
95°
60°
55°